

**SUBMARINE DAMAGE CONTROL TRAINER, DEVICE 21C6B****TRAINING CATEGORY:**

UNDERSEA OPERATIONS (SHIP)
(Ship Control Damage Control)

ORIGINATING AGENCY:

NAVSEA

SECURITY CLASSIFICATION:

Device 21C6B is unclassified.

PURPOSE OF DEVICE:

To train and evaluate submarine damage control team performance in the identification, reporting, and repair of flooding casualties resulting from piping ruptures.

INTENDED USE:

To familiarize students with the physical characteristics of a submarine engine room and procedures for controlling water, oil, and air leaks.

FUNCTIONAL DESCRIPTION:

Device 21C6B enables a damage control team to receive training in response to flooding casualties. The major systems of this device are emergency air breathing, high pressure air, water distribution, water treatment, instructor control, communications, closed-circuit TV, lighting, and power distribution.

The instructor console in the control room overlooks the simulated engine room (get-wet) compartment that serves as the trainee area. As the instructor initiates piping leaks, the training exercise is monitored by closed-circuit TV and recorded by VCRs at both the instructor console and the classroom for critique of trainee performance. All air and water systems are monitored and controlled by the instructor from the instructor console.

Students use air breathing band-it kits for controlling the leaks when an emergency situation is simulated. Water from these leaks is re-

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cycled and is continually monitored and maintained at proper temperature, chlorine, and Ph levels. Intercom equipment is provided for communications between the get-wet compartment, control room, support area pump pit, classroom, and lobby.

PHYSICAL INFORMATION:

<u>AREA</u>	<u>DIMENSIONS</u> <u>L" x W" x H"</u>
1. Get-Wet Compartment	280 x 200 x 200
2. Get-Wet Compartment (Upper Level)	280 x 200 x 180
3. Control Room	220 x 120 x 180
4. Trainer Support Area	525 x 188 x 174
5. Pump Room	184 x 82 x 180
6. Chlorine Room	122 x 86 x 180
7. Water Chiller Room	178 x 120 x 180
8. Classroom #1	333 x 258 x 108
9. Classroom #2	359 x 258 x 108
10. Storage Tank	550 x 152 x 152

EQUIPMENT REQUIRED (NOT SUPPLIED):

Refer to Operation and Maintenance Instructions for Device 21C6B, NTSC P-6360-1 (U).

POWER REQUIREMENTS:

3PDC: 120/208V, 3-Phase, 60 Hz., Delta,
3-Wire, 100 Main Breaker

4DMD: 277/480V, 3-Phase, 60 Hz., Delta,
4-Wire, 400A Main Breaker

PUBLICATIONS FURNISHED:

1. NTSC P-6360 - Operation and Maintenance Instructions Manual with Commercial Supplements (U)
2. NTSC P-6361 - Planned Maintenance System Documentation (U)
3. NTSC P-6362 - Instructor Utilization Handbook (U)
4. NTSC P-6363 - On-The-Job Training Handbook (U)

PERSONNEL:

Instructors: Three (3)

Students: Twelve (12)

CONTRACT IDENTIFICATION:

Manufactured by United Scale Models
Southwest, Inc., Houston, TX under NAVTRASYS-
CEN Contract No. N61339-88-C-0006.

LOCAL STOCK NUMBER:

6930-LL-C00-6933